

MAY 2 8 1995

NAS 1.53/3:95-OSS-12



National Aeronautics
and Space Administration

MAY 2, 1995
NRA 95-OSS-12

RESEARCH ANNOUNCEMENT

PLANETARY INSTRUMENT DEFINITION AND DEVELOPMENT PROGRAM

PROPOSALS DUE: AUGUST 2, 1995

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95-033362

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***Planetary Instrument Definition
and Development Program***

NASA Research Announcement
Soliciting
Proposals for Basic Research
For the Period Ending
August 2, 1995

NRA 95-OSS-12
Issued: May 2, 1995

Office of Space Science
National Aeronautics and Space Administration
Washington, DC 20546-0001

Planetary Instrument Definition and Development Program

This NASA Research Announcement (NRA) solicits basic research proposals for the Planetary Instrument Definition and Development Program.

Participation in this program is open to all categories of organizations, industry, educational institutions, other nonprofit organizations, NASA centers, and other Government agencies. Proposals may be submitted at any time during the period ending August 2, 1995. The proposals that are received by this deadline will be evaluated by scientific peer reviews which will be completed in October 1995.

Further details relevant to this program are included in the appendices to this Announcement. In response to the increased awareness of ecological issues on the parts of both NASA and the scientific community, NASA will conserve paper and reduce waste by providing these appendices through anonymous file-transfer-protocol (ftp) from Internet host: [nssdca.gsfc.nasa.gov](ftp://nssdca.gsfc.nasa.gov) (128.183.36.23). Detailed instructions for file retrieval are attached.

Appendix B contains the basic guidance needed for preparation of solicited proposals in response to an NRA. Appendix A provides technical and program information in the general area in which proposals are sought, plus amendatory guidance to Appendix B, applicable only to this NRA. The following items, likewise, apply only to this Announcement:

Identifier:	NRA 95-OSS-12
Obtain Additional Information and Hard Copies of NRA from:	Dr. Theodor Kostiuk Manager, Planetary Instrument Definition and Development Program NRA 95-OSS-12 Solar System Exploration Division Code SLC NASA Headquarters Washington, DC 20546-0001 Phone (202) 358-0297
Proposal Copies Required:	17 Total: 15 copies to address below 2 copies (one with original signature) to Dr. Kostiuk (address above)
Mail 15 Copies of Proposals to:	Planetary Instrument Definition and Development Program NRA 95-OSS-12 Solar System Exploration Division Code SLC NASA Headquarters Washington, DC 20546-0001

Selecting Official:

Director
Solar System Exploration Division
Office of Space Science

This NRA replaces other Planetary Instrument Definition and Development Program announcements of previous years. Since it is significantly different in both content and emphasis from these earlier announcements, potential proposers should read this NRA carefully.

Your interest and cooperation in participating in this effort are appreciated.



Wesley T. Huntress, Jr.
Associate Administrator for
Space Science

INSTRUCTIONS FOR FILE RETRIEVAL

Example FTP session (Do not type what is in parentheses. It is for your information only.)

ftp nssdca.gsfc.nasa.gov (To connect to the host site)

Do the following after successfully connecting to nssdca

SCREEN PROMPT	YOUR RESPONSE
------------------	------------------

username:	anonymous
-----------	-----------

password:	(Everything left of @ in your address) (For example, if your address were, "jsmith@my.site.org", your password would be jsmith)
-----------	---

ftp>	bin (Convert to binary mode. Not needed for ASCII version.)
------	---

ftp>	cd hq-nras.piddp (Go to directory for this NRA)
------	---

ftp>	dir (This will list the 4 files named below)
------	--

ftp>	get "filename" (Do not use the quotes, just one of the filenames below)
------	--

ftp>	quit (to exit ftp)
------	--------------------

Option	Filename
--------	----------

- | | | |
|-----|-------------|---------------------------------------|
| 1.) | piddp95.txt | ASCII Text format |
| 2.) | piddp95.mcw | Mac Word 5.1 format |
| 3.) | piddp95.wrd | Microsoft Word for Windows 6.0 format |
| 4.) | piddp95.ps | Postscript format |

Explanation of Directory Structure

The `nssdca.gsfc.nasa.gov` site has the following directory structure.

ROOT DIRECTORY (`nssdca.gsfc.nasa.gov`)

 \ HQ-nras (subdirectory)

 \ HQ-nras.piddp (sub of the subdirectory)

In order to get a listing of the files you must be in the HQ-nras.piddp directory.

Explanation of options (All were tested successfully):

1.) ASCII files are a universal option for reading text. ASCII format uses 7 bit transmission, giving only 128 characters. As a result the forms are not faithful reproductions of the forms in the hard (print) copy of the NRA. Options 2, 3, and 4 yield forms that are faithful reproductions of the hard copy. As stated in the NRA the forms are in a "suggested" format. Any reasonable facsimile that is clear and legible and contains the requested information will be acceptable to NASA.

2.) Mac Word 5.1 and a laser printer were used.

3.) Word for Windows 6.0 and a laser printer were used.

4.) This option requires a postscript printer but it does not require any word processing program. It is probably the best option for those who have access to a postscript printer.

Paper copies of the AO and appendices will be available at the address shown below only if the prospective proposer's institution lacks Internet access to ftp.

**Planetary Instrument Denitition
and
Development Program**

NRA 95-OSS-12

- Appendix A: Description of Program**
- Appendix B: Guidelines for Proposal Preparation**
- Attachments: Certification Forms; Debarment & Suspension,
Drug-Free Workplace, Lobbying**

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NASA Research Announcement (NRA)/Announcement of Opportunity (AO) Mailing List Update

If your current address is NOT up-to-date, please fill out this form completely.

This is the update form for the NASA Office of Space Sciences (OSS) NRA/AO mailing list. Please fill out CONTACT INFORMATION completely. Check only those that apply in Institution Type and Discipline. Fold the form, secure with tape, and mail it back to the address on the reverse side. Proper postage must be applied.

Please check which announcements you would like to receive:

- ☐ 1. NASA Research Announcements (basic, non-flight, on-going research)
- ☐ 2. Announcements of Opportunity (specific space flight mission)

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- ☐ 2. Please **remove** my name from the mailing list (please attach mailing label)
- ☐ 3. Please **update** my current listing.

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Division / Department:					
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Institution Type

(check only those that apply)

- | | | |
|--|---|---|
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| ☐ 2. Minority College or University | ☐ 5. NASA HQs/Center | ☐ 8. Private Industry |
| ☐ 3. Foreign Addressee | ☐ 6. Nonprofit Corporation | ☐ 9. Small Business |

Societies:

- ☐ A. American Astronomical Society
- ☐ B. American Geophysical Union
- ☐ C. Others

Discipline:

(check only those that apply)

1. Astronomy and Astrophysics

- ☐ A. Theory and Modeling
- ☐ B. Instrumentation (Technology Dev)
- ☐ C. Laboratory Astrophysics
- ☐ D. Data Analysis (Archival)
- ☐ E. Observational Programs

2. Solar System Exploration

- ☐ A. Planetary Atmospheres and Astronomy
- ☐ B. Planetary Materials and Geochemistry
- ☐ C. Planetary Geology and Geophysics
- ☐ D. Instrument Development
- ☐ E. Origins of Solar Systems
- ☐ F. Exobiology

3. Space Physics

- ☐ A. Cosmic and Heliosphere Physics
- ☐ B. Solar Physics
- ☐ C. Magnetospheric Physics
- ☐ D. Ionosphere-Magnetospheric Physics

4. Information Systems/Computer Science

- ☐ A. High Performance Computing and Networking
- ☐ B. Scientific Data Analysis and Visualization
- ☐ C. Science Data Storage and Management
- ☐ D. Software Technology

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08/08/95